

MLCPAC STANDARD SPECIFICATION 304.1  
SHIPBOARD ELECTRICAL CABLE TEST

1 SCOPE

1.1 This specification provides guidance and requirements for insulation resistance test of shipboard electrical cables.

2 REFERENCES

Coast Guard Drawings: None

Enclosed Figures: None

Applicable Documents:

NAVSEA S9AAO-AB-GOS-010/GOS; General Specification for Overhaul of Surface Ships  
(GSO), Section 304, Electrical Cables.

3 REQUIREMENTS

3.1 Ensure tests of all newly installed or modified electric cables are in accordance with paragraphs 3.2 and 3.3 before energizing the circuits.

3.2 Accomplish insulation resistance tests of electric cables using a 500 volt, direct current megohmmeter. Disconnect low voltage equipment associated with circuits to be tested to prevent damage during tests. Refer to NAVSEA S9AAO-AB-GOS-010/GOS for guidance.

3.2.1 Minimum acceptance readings of cable conductors to ground and between conductors shall be as follows:

CIRCUIT	MEGOHMS
Each Complete Lighting Circuit	0.5
Each Complete Power Circuit	1.0
Degaussing Circuit	0.1
Interconnection Control Circuit	1.0
Interior Communication Circuit	0.05
Sound-Powered Telephone Circuit	0.05

3.3 Test each new or modified circuit for continuity and ensure terminal connections are tight.

3.4 Submit a Condition Found Report listing the results of paragraphs 3.1, 3.2, and 3.3, including circuit numbers, lead numbers and readings obtained, to the Coast Guard Inspector.